

# **UV Imaging Arrays, Particle Detectors, and Quantum Dots**

Shouleh Nikzad

*Nanoscience and Advanced Detector Arrays Group*

Jet Propulsion Laboratory

Imaging arrays exhibiting 100% internal quantum efficiency in ultraviolet will be presented. Low-energy particle detectors will also be discussed that possess a low-energy detection threshold that is an order of magnitude improvement over the state of the art technology. Wide-bandgap based UV imaging arrays will be discussed.